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TEST REPORT ON STEEL

Name of work:	Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at Avalahalli village Limits.
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	24/09/2020
Submission Date:	27/09/2020

Steel Test Calculation for roads at Avalahalli village Limits

		For 8mm		For 10mm		For 12mm	
SL NO	Details	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008
1	Observed Dia of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm	12.0 mm	12.0 mm
2	Observed wt/m length(kg/m)	0.378	0.363	0.589	0.567	0.850	0.834
3	Proof Stress/Yield	538	500	545	500	535	500

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TEST REPORT ON CEMENT

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at Avalahalli village Limits.
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	24/09/2020
Submission Date:	27/09/2020

Test Calculation for roads at Avalahalli village Limits

SL no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

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TEST REPORT ON COARSE AGGREGATE

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at Avalahalli village Limits.
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	24/09/2020
Submission Date:	27/09/2020

Test Calculation for roads at Avalahalli village Limits

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

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Total Wt of Aggregate in Gms: 2300

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location :at Avalahalli village Limits.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 7Days, 28 Days

Date of casting : 30/09/2020

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	30/09/2020	28/10/2020	491	21.82	21.838
2	30/09/2020	28/10/2020	489	21.73	
3	30/09/2020	28/10/2020	493	21.91	

Raft, wall concrete for culvert and Drains

28 Days test Results

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location :at Avalahalli village Limits.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 7Days, 28 Days

Date of casting : 09/10/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	11/10/2020	09/11/2020	491	21.82	21.82
2	11/10/2020	09/11/2020	489	21.73	
3	11/10/2020	09/11/2020	493	21.91	

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location :at Avalahalli village Limits.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 7Days, 28 Days

Date of casting : 26/09/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	26/09/2020	24/10/2020	491	21.82	21.82
2	26/09/2020	24/10/2020	489	21.73	
3	26/09/2020	24/10/2020	493	21.91	

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location :at Avalahalli village Limits..

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 28 Days

Date of casting 13/7/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	13/7/2020	10/08/2020	711.5	31.62	32.34
2	13/7/2020	10/08/2020	726.4	32.28	
3	13/7/2020	10/08/2020	745.3	33.12	

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location :at Avalahalli village Limits.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 28 Days

Date of casting : 13/7/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	13/7/2020	10/08/2020	724.8	32.21	32.53
2	13/7/2020	10/08/2020	726.4	32.28	
3	13/7/2020	10/08/2020	745.3	33.12	

AE-1

AE-2

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TEST REPORT ON FINE AGGREGATE

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at kempanahalli village Limits.
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	17/08/2020
Submission Date:	20/08/2020

Test Calculation for Culvert and Drain at kempanahalli village Limits

SAMPLE ID: Sand Total Wt of Aggregate in Gms: 1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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	Stress fy =N/mm²						
4	Percentage of Elongation (%)	21.70	16	22.35	16	22.70	16
5	Ultimate Tensile Strength N/mm²	615	565	605	565	618	565
6	Bend/Re-Bend test	ok		ok		ok	

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AE-2

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at kempanalli village limit.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 7Days, 28 Days

Date of casting 16/8/2020

Concrete for roads

28 Days test Results

AE-2

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	16/8/2020	22/11/2020	711.5	31.62	32.34
2	16/8/2020	22/11/2020	726.4	32.28	
3	16/8/2020	22/11/2020	745.3	33.12	

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at kempanalli village limit.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 7Days, 28 Days

Date of casting : 16/8/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	24/09/2020	22/11/2020	711.5	31.62	32.34
2	24/09/2020	22/11/2020	726.4	32.28	
3	24/09/2020	22/11/2020	745.3	33.12	

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at kempanalli village limit.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 7Days, 28 Days

Date of casting : 16/8/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	24/09/2020	22/11/2020	711.5	31.62	32.31
2	24/09/2020	22/11/2020	724.8	32.21	
3	24/09/2020	22/11/2020	745.3	33.12	

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at kempanalli village limit.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 7Days, 28 Days

Date of casting : 16/8/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	24/09/2020	22/11/2020	708.4	31.48	31.99
2	24/09/2020	22/11/2020	724.8	32.21	
3	24/09/2020	22/11/2020	726.4	32.28	

AE-2

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at kempanalli village limit

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes	: 150 x150 x 150 mm
Cross Sectional area	: 22500 mm2
Grade of concrete	: M20
Compressive Strength as on	: 7Days, 28 Days
Date of casting	: 16/8/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	16/8/2020	13/09/2020	509.8	22.66	22.99
2	16/8/2020	13/09/2020	518.7	23.05	
3	16/8/2020	13/09/2020	523.4	23.26	

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at kempanalli village limit

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 7Days, 28 Days

Date of casting : 16/8/2020

Concrete for culvert and Drains side walls

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	16/8/2020	13/09/2020	518.7	23.05	22.65
2	16/8/2020	13/09/2020	492.0	21.87	
3	16/8/2020	13/09/2020	518.4	23.04	

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	Stress fy =N/mm²						
4	Percentage of Elongation (%)	21.70	16	22.35	16	22.70	16
5	Ultimate Tensile Strength N/mm²	615	565	605	565	618	565
6	Bend/Re-Bend test	ok		ok		ok	

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TEST REPORT ON COARSE AGGREGATE

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	Mylapanahalli village limit
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	18/11/2020
Submission Date:	24/11/2020

Test Calculation for roads Mylapanahalli village limit

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

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Total Wt of Aggregate in Gms: 2300

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at Mylapanahalli village limit

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/202021

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes	: 150 x150 x 150 mm
Cross Sectional area	: 22500 mm2
Grade of concrete	: M20
Compressive Strength as on	: 28 Days
Date of casting	: 16/8/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	15/10/2020	13/11/2020	493.6	21.94	21.82
2	15/10/2020	13/11/2020	521.4	23.17	
3	15/10/2020	13/11/2020	539.8	23.99	

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at Mylapanahalli village limit

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes	: 150 x150 x 150 mm
Cross Sectional area	: 22500 mm2
Grade of concrete	: M20
Compressive Strength as on	: 7Days, 28 Days
Date of casting	: 16/8/2020

Concrete for culvert and Drains side walls

28 Days test Results

Sl no	AE-2 Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	15/10/2020	13/11/2020	506.3	22.50	22.51
2	15/10/2020	13/11/2020	492.0	21.87	
3		13/11/2020	521.4	23.17	

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at Mylapanahalli village limit

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

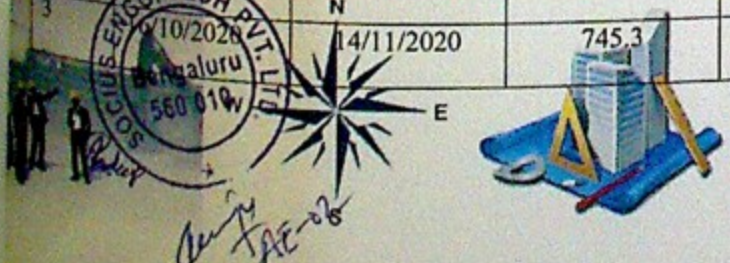
Agency: M/s Karthik Enterprises

Size of cubes	: 150 x150 x 150 mm
Cross Sectional area	: 22500 mm2
Grade of concrete	: M30
Compressive Strength as on	: 28 Days
Date of casting	: 16/10/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	16/10/2020	14/11/2020	708.4	31.48	32.27
2	16/10/2020	14/11/2020	724.8	32.21	
3	16/10/2020	14/11/2020	745.3	33.12	



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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at Mylapanahalli village limit

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 28 Days

Date of casting : 16/10/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	16/10/2020	14/11/2020	724.8	32.21	32.53
2	16/10/2020	14/11/2020	726.4	32.28	
3	16/10/2020	14/11/2020	745.3	33.12	

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TEST REPORT ON FINE AGGREGATE

ame of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
ocation:	at Synganayakanahalli village Limits.
lient:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
ame of the gency:	M/s Karthik Enterprises
eference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
ondition of amples:	Satisfactory
est According to:	Relevant IS code
ate of Testing:	24/6/2020
ubmission Date:	30/06/2020

Test Calculation for Culvert and Drain at Synganayakanahallivillage Limits

SAMPLE ID: Sand Total Wt of Aggregate in Gms: 1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division Package - 10)

Location : at singanayakanahalli village limit

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 13/7/2020

Concrete for culvert and Drains side walls

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	13/7/2020	10/08/2020	506.3	22.50	22.103
2	13/7/2020	10/08/2020	492.0	21.87	
3	13/7/2020	10/08/2020	493.6	21.94	

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EST REPORT ON M20 GRADE CONCRETE

ame of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama anchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division Package - 10)

cation : at singanayakanahalli village limit

lient: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

lame of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

greement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

gency: M/s Karthik Enterprises

ize of cubes : 150 x150 x 150 mm

ross Sectional area : 22500 mm2

rade of concrete : M20

ompressive Strength as on : 28 Days

ate of casting 13/7/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	13/7/2020	10/08/2020	538.7	23.97	23.42
2	13/7/2020	10/08/2020	518.7	23.05	
3	13/7/2020	10/08/2020	523.4	23.26	

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TEST REPORT ON M30 GRADE CONCRETE

ıe of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama hayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division kage - 10)

tion : at singanayakanahalli village limit.

nt: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

ıe of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

reement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

ncy: M/s Karthik Enterprises

: of cubes : 150 x150 x 150 mm

ss Sectional area : 22500 mm2

ıde of concrete : M30

mpressive Strength as on :, 28 Days

te of casting : 13/7/2020

ncrete for roads

Days test Results

AE-2

ıo	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
	13/7/2020	10/08/2020	726.4	32.28	32.53
	13/7/2020	10/08/2020	724.8	32.21	
	13/7/2020	10/08/2020	745.3	33.12	

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TEST REPORT ON STEEL

e of work:	Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
tion:	at Honnenahalli village Limits .
t:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
e of the cy:	M/s Karthik Enterprises
rence:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
dition of ples:	Satisfactory
According to:	Relevant IS code
of Testing:	17/08/2020
nission Date:	20/08/2020

Steel Test Calculation for Culvert and Drain at Honnenahalli village Limits

	For 8mm		For 10mm		For 12mm	
Details	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008
Observed Dia of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm	12.0 mm	12.0 mm
Observed wt/m length(kg/m)	0.378	0.363	0.589	0.567	0.850	0.834
Proof Stress/Yield	538	500	545	500	535	500

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TEST REPORT ON FINE AGGREGATE

me of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
cation:	Honnenahalli village Limits .
ent:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
me of the ency:	M/s Karthik Enterprises
ference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
ndition of mples:	Satisfactory
st According to:	Relevant IS code
te of Testing:	24/09/2020
bmission Date:	27/09/2020

Test Calculation for roads Honnenahalli village Limits .

AMPLE ID: Sand Total Wt of Aggregate in Gms: 1350

Sieve Size mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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TEST REPORT ON M20 GRADE CONCRETE

ıne of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama chayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division ckage - 10)

ıtion : at Honnenahalli village Limits .

ent: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

me of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

reement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

ency: M/s Karthik Enterprises

e of cubes : 150 x150 x 150 mm

oss Sectional area : 22500 mm2

ade of concrete : M20

mpressive Strength as on : 28 Days

te of casting : 26/09/2020

Concrete for culvert slabs and Drain slabs

Days test Results

AE-2

no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
	02/07/2020	10/08/2020	493.6	21.94	23.3
	02/07/2020	10/08/2020	538.7	23.97	
	02/07/2020	10/08/2020	539.8	23.99	

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TEST REPORT ON M30 GRADE CONCRETE

ıe of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama :hayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division :kage - 10)

ıtion : at Honnenahalli village Limits .

ınt: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

ne of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

reement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

ncy: M/s Karthik Enterprises

: of cubes : 150 x150 x 150 mm

ıss Sectional area : 22500 mm2

ıde of concrete : M30

ıpressive Strength as on : 28 Days

e of casting : 26/09/2020

ncrete for roads

Days test Results

ıo	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
	26/09/2020	24/10/2020	726.4	32.28	32.34
	26/09/2020	24/10/2020	711.5	31.62	
	26/09/2020	24/10/2020	745.3	33.12	

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Improvements to roads and drains and other developmental works in singanayakanahalli panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at Ramagondanahalli village Limits. .

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 28 Days

Date of casting 13/7/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	13/7/2020	10/08/2020	711.5	31.62	32.85
2	13/7/2020	10/08/2020	726.4	32.28	
3	13/7/2020	10/08/2020	745.3	33.12	

AE-2

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at Ramagondanahalli village Limits.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on :, 28 Days

Date of casting : 13/7/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	13/7/2020	10/08/2020	726.4	32.28	32.53
2	13/7/2020	10/08/2020	724.8	32.21	
3	13/7/2020	10/08/2020	745.3	33.12	

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at Ramagondanahalli village Limits.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on :, 28 Days

Date of casting : 13/7/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	13/7/2020	10/08/2020	711.5	31.62	32.31
2	13/7/2020	10/08/2020	724.8	32.21	
3	13/7/2020	10/08/2020	745.3	33.12	

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TEST REPORT ON M30 GRADE CONCRETE

Name of work: Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

location : at Ramagondanahalli village Limits.

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 28 Days

Date of casting : 13/7/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	13/7/2020	10/08/2020	708.4	31.48	32.27
2	13/7/2020	10/08/2020	724.8	32.21	
3	13/7/2020	10/08/2020	745.3	33.12	

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